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-	2	(((((first near key) and (second near key)) and dependent$3 and (signature digest) and (hash "MAC" (message adj authenticat$3)) and (transmit$4 and message)) and @ad<19980107) and 713/181.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 11:06
-	0	((message-dependent information-dependent) near key)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 11:06
-	1909	((message information) same dependent same key)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 11:07
-	270	(((message information) near2 dependent) same key)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 11:07
-	59	(((message information) near2 dependent) near2 key)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 11:07
-	35	((((message information) near2 dependent) near2 key)) and @ad<19990107	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 11:08
-	28	(((((message information) near2 dependent) near2 key)) and @ad<19990107) and (709/$.ccls. 713/$.ccls. 705/$.ccls. 380/$.ccls.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 13:28
-	58	@ad<19980107 and (713/179.ccls.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 13:34
-	1	(@ad<19980107 and (713/179.ccls.)) and (380/273.ccls. 380/283.ccls. 380/44.ccls.)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 13:36
-	48	(@ad<19980107 and (713/179.ccls.)) and 380/$.ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 13:37
-	1	@ad<19980107 and (remote$3 near program$5) and (key same (message adj3 dependent))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/02/27 13:47
-	1	("5343527").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 10:28
-	167	(713/151).CCLS.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:07
-	726	(deriv$3 near2 key) and ((data message information) near2 specific)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:08

(handwritten annotations in margin: "title scanned" next to the 58 and 48 rows)

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-	43	(deriv$3 near2 key) same ((data message information) near2 specific)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:10
-	3	(deriv$3 near2 key) same ((data message information) near2 specific) same concatenat$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:16
-	438	(deriv$3 near2 key) and (first near key) and (second near key)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:17
-	245	@ad<19980107 and (deriv$3 near2 key) and (first near key) and (second near key)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:17
-	87	(@ad<19980107 and (deriv$3 near2 key) and (first near key) and (second near key)) and (hash "MAC" digest "message authentication code")	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:18
-	83	((@ad<19980107 and (deriv$3 near2 key) and (first near key) and (second near key)) and (hash "MAC" digest "message authentication code")) and encrypt$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:18
-	83	(((@ad<19980107 and (deriv$3 near2 key) and (first near key) and (second near key)) and (hash "MAC" digest "message authentication code")) and encrypt$3) and (message transmit$5 transmission mobile wireless)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:19
-	83	(((@ad<19980107 and (deriv$3 near2 key) and (first near key) and (second near key)) and (hash "MAC" digest "message authentication code")) and encrypt$3) and (message transmit$5 transmission)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 11:19
-	604	(derive same key same (message hash digest checksum))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 15:58
-	237	((derive same key same (message hash digest checksum))) and @ad<19980107	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 15:58
-	58	(((derive same key same (message hash digest checksum))) and @ad<19980107) and header	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 16:04
-	5122	@ad<19980107 and ((program$4 provision$3) near (mobile wireless cell$4))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 16:05
-	165	@ad<19980107 and ((program$4 provision$3) near (mobile wireless cell$4)) and encrypt$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 16:06
-	9	(@ad<19980107 and ((program$4 provision$3) near (mobile wireless cell$4)) and encrypt$3) and (hash digest)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 16:05
-	29	(@ad<19980107 and ((program$4 provision$3) near (mobile wireless cell$4)) and encrypt$3) and (hash signature digest)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 16:05
-	94	@ad<19980107 and ((program$4 provision$3) near (mobile wireless)) and encrypt$3	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 16:06
-	10	@ad<19980107 and ((program$4 provision$3) near (mobile wireless)) and encrypt$3 and (hash signature digest)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/11 16:06

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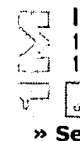
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1 **Security management on mobile-phone communication**
Chan, K.L.; Kwong, S.; Longginnou, L.;
TENCON '93. Proceedings. Computer, Communication, Control and Power
Engineering.1993 IEEE Region 10 Conference on , Issue: 0 , 19-21 Oct. 1993
Pages:127 - 130 vol.3

[Abstract]   [PDF Full-Text (272 KB)]   **IEEE CNF**

2 **Security in PMR systems**
Chater-Lea, D.;
Security in Networks (Digest No. 1995/024), IEE Colloquium on , 3 Feb. 1995
Pages:5/1 - 5/6

[Abstract]   [PDF Full-Text (504 KB)]   **IEE CNF**

3 **Weaknesses of North American wireless authentication protocol**
Patel, S.;
Personal Communications, IEEE [see also IEEE Wireless
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[Abstract]   [PDF Full-Text (716 KB)]   **IEEE JNL**

4 **Privacy and authentication protocols for PCS**
Mohan, S.;
Personal Communications, IEEE [see also IEEE Wireless
Communications] , Volume: 3 , Issue: 5 , Oct. 1996
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5 **Augmented encrypted key exchange using RSA encryption**
Barmawi, A.M.; Takada, S.; Doi, N.;
Personal, Indoor and Mobile Radio Communications, 1997. 'Waves of the Year
2000'. PIMRC '97., The 8th IEEE International Symposium on , Volume: 2 , 1-
Sept. 1997
Pages:490 - 494 vol.2

[Abstract]   [PDF Full-Text (540 KB)]   **IEEE CNF**

6 **On the design of secure group-oriented communication channels in Internet environments**
Woei-Jiunn Tsaur; Shi-Jinn Horng;
Personal, Indoor and Mobile Radio Communications, 1996. PIMRC'96., Seventh
IEEE International Symposium on , Volume: 3 , 15-18 Oct. 1996
Pages:1243 - 1247 vol.3

[Abstract]   [PDF Full-Text (504 KB)]   **IEEE CNF**

7 **Privacy and authentication on a portable communications system**
Beller, M.J.; Chang, L.-F.; Yacobi, Y.;
Global Telecommunications Conference, 1991. GLOBECOM '91. Countdown to
New Millennium. Featuring a Mini-Theme on: Personal Communications
Services , 2-5 Dec 1991
Pages:1922 - 1927 vol.3

[Abstract]   [PDF Full-Text (636 KB)]   **IEEE CNF**

8 **A security system for satellite networks**
Cruickshank, H.S.;
Satellite Systems for Mobile Communications and Navigation, 1996., Fifth
International Conference on , 13-15 May 1996
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[Abstract]   [PDF Full-Text (344 KB)]   **IEE CNF**

9 **Concepts and applications of wireless security systems for tactical, portable, and fixed sites**
Harrington, J.J.; Pritchard, D.A.;
Security Technology, 1997. Proceedings. The Institute of Electrical and Electro
Engineers 31st Annual 1997 International Carnahan Conference on , 15-17 O-
1997
Pages:133 - 139

[Abstract]   [PDF Full-Text (560 KB)]   **IEEE CNF**

10 **Wireless interworking architectures to support mobile IP over ATM**
Jain, R.; Rajagopalan, S.; Li Fung Chang; Varma, V.;
Global Telecommunications Conference, 1997. GLOBECOM '97., IEEE , Volum
3 , 3-8 Nov. 1997
Pages:1866 - 1870 vol.3

[Abstract]   [PDF Full-Text (608 KB)]   **IEEE CNF**

**11 The wire-tap channel concept against eavesdropping of indoor radi
telephone**
Korjik, V.; Yakovlev, V.; Babkov, I.;
Personal, Indoor and Mobile Radio Communications, 1997. 'Waves of the Yeaı
2000'. PIMRC '97., The 8th IEEE International Symposium on , Volume: 2 , 1·
Sept. 1997
Pages:477 - 479 vol.2

[Abstract]　[PDF Full-Text (336 KB)]　**IEEE CNF**

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1 The design and implementation of a private message service for mobile computers ■
David A. Cooper, Kenneth P. Birman
March 1995 **Wireless Networks**, Volume 1 Issue 3
Full text available: 📄 pdf(1.35 MB)   Additional Information: full citation, abstract, references

Even as wireless networks create the potential for access to information from mobile platforms, they pose a problem for privacy. In order to retrieve messages, users must periodically poll the network. The information that the user must give to the network could potentially be used to track that user. However, the movements of the user can also be used to hide the user's location if the protocols for sending and retrieving messages are carefully designed. We have developed a replicated memo ...

2 Standardizing information technology security ■
Warwick Ford
June 1994 **StandardView**, Volume 2 Issue 2
Full text available: 📄 pdf(1.12 MB)   Additional Information: full citation, references, index terms

3 Untraceability in mobile networks ■
Didier Samfat, Refik Molva, N. Asokan
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**
Full text available: 📄 pdf(1.20 MB)   Additional Information: full citation, references, index terms

   Keywords: CDPD, GSM, alias, anonymity, authentication, location privacy, mobility, security

4 The KryptoKnight family of light-weight protocols for authentication and key distribution ■
Ray Bird, Inder Gopal, Amir Herzberg, Phil Janson, Shay Kutten, Refik Molva, Moti Yung
February 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 1
Full text available: 📄 pdf(1.64 MB)   Additional Information: full citation, references, citings, index terms, review

5 Ticket based service access for the mobile user

Bhrat Patel, Jon Crowcroft

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: pdf(1.52 MB)   Additional Information: full citation, references, citings, index terms

6 Multicast security and its extension to a mobile environment

Li Gong, Nachum Shacham

March 1995 **Wireless Networks**, Volume 1 Issue 3

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, citings

Multicast is rapidly becoming an important mode of communication and a good platform for building group-oriented services. To be used for trusted communication, however, current multicast schemes must be supplemented by mechanisms for protecting traffic, controlling participation, and restricting access of unauthorized users to data exchanged by the participants. In this paper, we consider fundamental security issues in building a trusted multicast facility. We discuss techniques for group- ...

7 Proactive public key and signature systems

Amir Herzberg, Markus Jakobsson, Stanisław Jarecki, Hugo Krawczyk, Moti Yung

April 1997 **Proceedings of the 4th ACM conference on Computer and communications security**

Full text available: pdf(1.51 MB)   Additional Information: full citation, references, citings, index terms

8 A public-key based secure mobile IP

John Zao, Stephen Kent, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: pdf(1.95 MB)   Additional Information: full citation, references, citings

9 Active bridging

D. Scott Alexander, Marianne Shaw, Scott M. Nettles, Jonathan M. Smith

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available: pdf(1.73 MB)   Additional Information: full citation, abstract, references, citings, index terms

Active networks accelerate network evolution by permitting the network infrastructure to be programmable, on a per-user, per-packet, or other basis. This programmability must be balanced against the safety and security needs inherent in shared resources.This paper describes the design, implementation, and performance of a new type of network element, an Active Bridge. The active bridge can be reprogrammed "on the fly", with loadable modules called switchlets. To demonstrate the use of the active ...

10 Using content-derived names for configuration management

Jeffrey K. Hollingsworth, Ethan L. Miller

May 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability**, Volume 22 Issue 3
Full text available: pdf(753.19 KB)   Additional Information: full citation, references, citings, index terms

11 A calculus for cryptographic protocols: the spi calculus
Martín Abadi, Andrew D. Gordon
April 1997 **Proceedings of the 4th ACM conference on Computer and communications security**
Full text available: pdf(1.54 MB)   Additional Information: full citation, references, citings, index terms

12 Strong loss tolerance of electronic coin systems
Birgit Pfitzmann, Michael Waidner
May 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 2

Full text available: pdf(267.29 KB)   Additional Information: full citation, abstract, references, index terms, review

Untraceable electronic cash means prepaid digital payment systems, usually with offline payments, that protect user privacy. Such systems have recently been given considerable attention by both theory and development projects. However, in most current schemes, loss of a user device containing electronic cash implies a loss of money, just as with real cash. In comparison with credit schemes, this is considered a serious shortcoming. This article shows how untraceable electronic cash can be m ...

Keywords: Byzantine faults, electronic cash, payment systems, privacy

13 Maintaining authenticated communication in the presence of break-ins
Ran Canetti, Shai Halevi, Amir Herzberg
August 1997 **Proceedings of the sixteenth annual ACM symposium on Principles of distributed computing**
Full text available: pdf(1.27 MB)   Additional Information: full citation, references, citings, index terms

14 Authentication protocols for personal communication systems
Hung-Yu Lin, Lein Harn
October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 25 Issue 4

Full text available: pdf(647.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

Masquerading and eavesdropping are major threats to the security of wireless communications. To provide proper protection for the communication of the wireless link, contents of the communication should be enciphered and mutual authentication should be conducted between the subscriber and the serving network. Several protocols have been proposed by standards bodies and independent researchers in recent years to counteract these threats. However, the strength of these protocols is usually weakene ...

15 Scalable support for transparent mobile host internetworking
David B. Johnson
March 1995 **Wireless Networks**, Volume 1 Issue 3

Full text available: 🔁 pdf(1.10 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

This paper considers the problem of providing transparent support for very large numbers of mobile hosts within a large internetwork such as the Internet. The availability of powerful mobile computing devices and wireless networking products and services is increasing dramatically, but internetworking protocols such as IP used in the Internet do not currently support host movement. To address this need, the Internet Engineering Task Force (IETF) is currently developing protocols for mobile ...

16 <u>Mobility support in IPv6</u>

Charles E. Perkins, David B. Johnson
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available: 🔁 pdf(1.37 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

17 <u>Internet security: firewalls and beyond</u>

Rolf Oppliger
May 1997 **Communications of the ACM**, Volume 40 Issue 5

Full text available: 🔁 pdf(339.15 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

18 <u>Witness-based cryptographic program checking and robust function sharing</u>

Yair Frankel, Peter Gemmell, Moti Yung
July 1996 **Proceedings of the twenty-eighth annual ACM symposium on Theory of computing**

Full text available: 🔁 pdf(1.13 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

19 <u>Dealing with server corruption in weakly consistent, replicated data systems</u>

Mike J. Spreitzer, Marvin M. Theimer, Karin Petersen, Alan J. Demers, Douglas B. Terry
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: 🔁 pdf(1.14 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

20 <u>Iolus: a framework for scalable secure multicasting</u>

Suvo Mittra
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available: 🔁 pdf(1.70 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

As multicast applications are deployed for mainstream use, the need to secure multicast communications will become critical. Multicast, however, does not fit the point-to-point model of most network security protocols which were designed with unicast communications in mind. As we will show, securing multicast (or group) communications is fundamentally different from securing unicast (or paired) communications. In turn, these differences can result in scalability problems for many typical applica ...

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1 **Cryptographic security techniques for digital mobile telephones**
Cooke, J.C.; Brewster, R.L.;
Wireless Communications, 1992. Conference Proceedings., 1992 IEEE International Conference c
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Pages:425 - 428

[Abstract]   [PDF Full-Text (480KB)]   **IEEE CNF**

2 **Broad-band networks for LAN and radio applications**
Glass, A.M.; Brewster, R.L.;
Vehicular Technology Conference, 1988 IEEE 38th , 15-17 June 1988
Pages:44 - 51

[Abstract]   [PDF Full-Text (576KB)]   **IEEE CNF**

3 **Handover signalling for microcellular environments**
Ali, A.H.; Brewster, R.L.;
Electronics Letters ,Volume: 32 , Issue: 19 , 12 Sept. 1996
Pages:1754 - 1755

[Abstract]   [PDF Full-Text (204KB)]   **IEE JNL**

4 **Improvement of the multipoint-to-point link of the GSM system**
Soltan, O.A.; Brewster, R.L.;
Electronics Letters ,Volume: 31 , Issue: 3 , 2 Feb. 1995
Pages:161 - 163

[Abstract]   [PDF Full-Text (260KB)]   **IEE JNL**

5 **Improved routing algorithm for interconnected local area networks**
Warford, I.J.; Brewster, R.L.;
Electronics Letters ,Volume: 28 , Issue: 14 , 2 July 1992
Pages:1308 - 1309

[Abstract]   [PDF Full-Text (172KB)]   **IEE JNL**

6 **Medium access control protocol for the integration of voice/data on a local area netw**
Malyan, A.D.; Brewster, R.L.;
Electronics Letters ,Volume: 26 , Issue: 9 , 26 April 1990
Pages:592 - 593

[Abstract]   [PDF Full-Text (160KB)]   **IEE JNL**

7 **Performance of dual-channel R-VT-CSMA for packet voice/data in local area network**
Malyan, A.D.; Brewster, R.L.;
Electronics Letters ,Volume: 25 , Issue: 21 , 12 Oct. 1989
Pages:1452 - 1454

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8 **Simulation model of sequential multichannel network and its throughput determinati**
Brewster, R.L.; Glass, A.M.;
Electronics Letters ,Volume: 25 , Issue: 15 , 20 July 1989
Pages:941 - 942

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9 **Effect of channel errors on source coded image data and the provision of adequate protection of transmission bits**
Brewster, R.L.; Dodgson, T.E.;
Radar and Signal Processing [see also IEE Proceedings-Radar, Sonar and Navigation], IEE Procee
,Volume: 135 , Issue: 6 , Dec. 1988
Pages:528 - 538

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10 **Modelling of CSMA/CA protocol by simulation**
Glass, A.M.; Brewster, R.L.; Abdulaziz, N.K.;
Electronics Letters ,Volume: 24 , Issue: 11 , 26 May 1988
Pages:692 - 694

[Abstract]   [PDF Full-Text (324KB)]   IEE JNL

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11 **Efficient handover signalling for microcellular environments using packet access mechanism**
Ali, A.H.; Brewster, R.L.;
Antennas and Propagation for Future Mobile Communications (Ref. No. 1998/219), IEE Colloquiu
on , 23 Feb. 1998
Pages:4/1 - 4/9

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12 **Variable Chip Duration Spread Spectrum Modulation**
Bosward, D.; Brewster, R.L.;
Spread Spectrum Techniques for Radio Communication Systems, IEE Colloquium on , 15 Apr 19S
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[Abstract]   [PDF Full-Text (300KB)]   IEE CNF

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13 **Cryptographic algorithms and protocols for personal communication systems securi**
Cooke, J.C.; Brewster, R.L.;
Security and Cryptography Applications to Radio Systems, IEE Colloquium on , 1994
Pages:8/1 - 8/6

[Abstract]   [PDF Full-Text (428KB)]   IEE CNF

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14 **Flexible multi-service acceptance control for private broadband ATM-based network**
Fisal, N.; Brewster, R.L.;
Teletraffic Symposium, 10th. Performance Engineering in Telecommunications Network, Tenth UI
16 Apr 1993
Pages:24/1 - 24/5

[Abstract]   [PDF Full-Text (312KB)]   IEE CNF

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15 **Techniques to increase the capacity of a DS-CDMA system**
Bozward, D.; Brewster, R.L.;
Spread Spectrum Techniques for Radio Communication Systems, IEE Colloquium on , 27 Apr 19S
Pages:2/1 - 2/6

[Abstract]   [PDF Full-Text (304KB)]   IEE CNF